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October 14, 2003

CERTIFICATE OF MAILING
37 C.F.R 1.8

MS DD
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. 10/656,053 entitled "LIPOPROTEINS AS NUCLEIC ACID VECTORS" by Juan G. Guevara et al.*
Our Ref. ARAG:003USD1

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement and Form PTO-1449.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/ARAG:003USD1.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully Submitted,

Steven L. Highlander
Reg. No. 3,642

SLH/cas
Encl.: As noted

25335181.1



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Juan G. Guevara et al.

Serial No.: 10/656,053

Filed: September 5, 2003

For: LIPOPROTEINS AS NUCLEIC ACID
VECTORS

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: ARAG:003USD1

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I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to:, MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:	
October 14, 2003 Date	Steven L. Highlander Signature

INFORMATION DISCLOSURE STATEMENT

MS DD

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

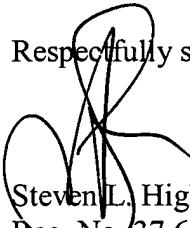
In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/ARAG:003USD1.

This application is a divisional application of Serial No. 09/079,030 filed May 14, 1998 and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) copies of the listed documents are not enclosed as they have been previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/079,030.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,

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Date: October 14, 2003

**Form PTO-1449 (modified)**

List of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.
ARAG:003USD1Serial No.
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Juan G. Guevara, Jr., Ron C. Hoogeveen
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A1	5,591,601	01-07-97	Wagner et al.	435	69.1	5-14-93
	A2	5,747,469	5-5-98	Roth et al.	514	44	4-25-94
	A3	6,143,290	11-7-00	Zhang et al.	424	93.2	4-7-94
	A4	6,156,567	12-5-00	Fischer	435	325	7-3-96
	A5	6,344,436	2-5-02	Smith et al.	514	2	1-8-96

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Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	WO 87/02061	04-09-87	PCT			
	B2	WO 93/04701	03-18-93	PCT			
	B3	WO 93/18759	9-30-93	PCT			
	B4	WO 95/28494	10-26-95	PCT			
	B5	WO 95/31557	11-23-95	PCT			
	B6	WO 98/00556	01-08-98	PCT			

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	C1	AN:2000400575, Medline, Journal of Protein Chemistry, 18:845-857, 1999.
	C2	Anderson, "Human Gene Therapy," <i>Nature</i> , 392:25-30, 1998.
	C3	Baleja and Sykes, "Comparison of the structures of operator DNA free and in complex with λ repressor," <i>Biochem. Cell Biol.</i> , 69(2-3):202-205, 1991.
	C4	Banner et al., "Structure of the ColE1 Rop protein at 1.7 Å resolution," <i>J. Mol. Biol.</i> , 196(3):657-675, 1987.

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	C5	Benvenisty and Reshef, "Direct introduction of genes into rats and expression of the genes," <i>Proc. Natl. Acad. Sci. USA</i> , 83:9551-9555, 1986.
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	C7	Blackhart <i>et al.</i> , "An expression system for human apolipoprotein B100 in a rat hepatoma cell line," <i>J. Biol. Chem.</i> , 265(15):8358-8360, 1990.
	C8	Blanco-Vaca <i>et al.</i> , "Characterization of disulfide-linked heterodimers containing apolipoprotein D in human plasma lipoproteins," <i>J. Lipid Res.</i> , 33:1785-17986, 1992.
	C9	Blanco-Vaca <i>et al.</i> , "Identification and quantification of apolipoproteins in addition to apo[a] and apo B-100 in human lipoprotein[a]," <i>Chem. Physics, Lipids</i> , 67/68:35-42, 1994.
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	C11	Briggs <i>et al.</i> , "Nuclear protein that binds sterol regulatory element of low density lipoprotein receptor promoter," <i>J. Biol. Chem.</i> , 268:14490-14496, 1993.
	C12	Brown and Goldstein, "A receptor-mediated pathway for cholesterol homeostasis," <i>Science</i> , 232:34-47, 1986.
	C13	Bullough <i>et al.</i> , "Crystals of a fragment of influenza haemagglutinin in the low pH induced conformation," <i>J. Mol. Biol.</i> , 236(4):1262-1265, 1994a.
	C14	Bullough <i>et al.</i> , "Structure of influenza haemagglutinin at the pH of membrane fusion," <i>Nature</i> , 371(6492):37-43, 1994b.
	C15	Cardin <i>et al.</i> , "Physical-chemical interaction of heparin and human plasma low-density lipoproteins," <i>Biochem.</i> , 26:5513-5518, 1987.
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Form PTO-1449 (modified)		Atty. Docket No. ARAG:003USD1	Serial No. 10/656,053
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		Filing Date: September 5, 2003	Group: Unknown
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	C23	Curiel <i>et al.</i> , "High efficiency gene transfer mediated by adenovirus coupled to DNA-polylysine complexes," <i>Human Gene Therapy</i> , 3:147-154, 1992.
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	C31	Guevara Jr., <i>et al.</i> , "Comparison of ligand-binding sites of modeled apo[a] kringle-like sequences in human lipoprotein[a]," <i>Arterioscler.</i> , 13(5):758-770, 1993.

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Applicants

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	C32	Guevara Jr., <i>et al.</i> , "Evidence that apoB-100 of low-density lipoproteins is a novel Src-related protein kinase," <i>J. Protein Chem.</i> , 14(7):627-631, 1995.
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	C39	Kim <i>et al.</i> , "Terplex system of lipoprotein, cationic polymer, and DNA for gene delivery," <i>Pharm. Res.</i> , 12(9):S80, 1995.
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	C41	Kinoshita <i>et al.</i> , "Modification of the core lipids of low density lipoproteins produces selective alterations in the expression of apoB-100 epitopes," <i>J. Lipid Res.</i> , 31:701-708, 1990.
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	C45	Kraulis <i>et al.</i> , "Structure of the DNA-binding domain of zinc GAL4," <i>Nature</i> , 356(6368):448-450, 1992.

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	C47	Lowenstein <i>et al.</i> , "The SH2 and SH3 domain-containing protein GRB2 links receptor tyrosine kinases to ras signaling," <i>Cell</i> , 70:431-442, 1992.
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	C49	MacArthur and Thornton, "Influence of proline residues on protein conformation," <i>J. Mol. Biol.</i> , 218:397-412, 1991.
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	C56	Meng <i>et al.</i> , "Tumor suppression genes as targets for cancer gene therapy," <i>Gene Therapy of Cancer</i> , Chapter 1, pp. 3-20, 1999.
	C57	Milne <i>et al.</i> , "The use of monoclonal antibodies to localize the low density lipoprotein receptor-binding domain of apolipoprotein B," <i>J. Biol. Chem.</i> , 264(33):19754-19760, 1989.
	C58	Musacchio <i>et al.</i> , "Crystal structure of a Src-homology 3 (SH3) domain," <i>Nature</i> , 359:851-855, 1992.
	C59	Myant, "LDL: Physical and Chemical Characteristics, Chapter 5, In: Cholesterol Metabolism, LDL, and the LDL Receptor, San Diego, Academic Press, pp. 99-111, 1990.

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U.S. Patent Documents
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	C60	Neumann <i>et al.</i> , "Gene transfer into mouse lyoma cells by electroporation in high electric fields," <i>EMBO J.</i> , 7:841-845, 1982.
	C61	Ngo et. Al, "Computational complexity, protein structure prediction, and the levinthal parasox," pp. 491-495, 1994.
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	C63	Pawson, "SH2 and SH3 domain," <i>Current Opinion in Structural Biology</i> , 2:432-437, 1992.
	C64	Pleiman <i>et al.</i> , "Activation of phosphatidylinositol-3' kinase by Src-family kinase SH3 binding to the p85 subunit," <i>Science</i> , 263:1609-1612, 1994.
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	C66	Ren <i>et al.</i> , "Identification of a ten-amino acid proline-rich SH3 binding site," <i>Science</i> , 259:1157-1161, 1993.
	C67	Rudd <i>et al.</i> , "src-related protein tyrosine kinases and their surface receptors," <i>Biochim. Biophys. Acta.</i> , 1155:239-266, 1993.
	C68	Schimotohono and Temin, "Formation of infectious progeny virus after insertion of herpes simplex thymidine kinase gene into DNA of an avian retrovirus," <i>Cell</i> , 26:67-77, 1981.
	C69	Schlessinger, "SH2/SW3 signaling proteins," <i>Current Opinions in Genetics and Development</i> , 4:25-30, 1994.
	C70	Schumaker and Puppione, "Sequential flotation ultracentrifugation," <i>Methods in Enzymology</i> , 128:155-170, 1986.
	C71	Sipehia and Martucci, "High-efficiency transformation of human endothelial cells by Apo E-mediated transfection with plasmid DNA," <i>Biochem Biophys Res Commun.</i> , 214:206-211, 1995.
	C72	Smith <i>et al.</i> , "Identification of nucleotides responsible for enhancer activity of sterol regulatory element in low density lipoprotein receptor gene," <i>J. Biol. Chem.</i> , 265:2306-2310, 1990.
	C73	Sompayrac and Danna, "Efficient infection of monkey cells with DNA of simian virus 40," <i>Proc. Natl. Acad. Sci. USA</i> , 78:7575-7578, 1981.

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	C75	Stribling <i>et al.</i> , "Aerosol gene delivery <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 89:11277-11281, 1992.
	C76	Tai <i>et al.</i> , "Ovarian cancer BRCA1 gene therapy: Phase I and II trial differences in immune responses and vector stability," <i>Clinical Cancer Research</i> , 5:1708-1714, 1999.
	C77	Teng <i>et al.</i> , "Modulation of apolipoprotein B antigenic determinants in human low density lipoprotein subclasses," <i>J. Biol. Chem.</i> , 260:5067-5072, 1985.
	C78	Trieu and McConathy, "Lipoprotein(a) binding to other apolipoprotein B containing lipoproteins," <i>Biochem.</i> , 29(25):5919-5924, 1990.
	C79	Trieu <i>et al.</i> , "Interaction of apolipoprotein(a) with apolipoprotein B-containing lipoproteins," <i>J. Biol. Chem.</i> , 266(9):5480-5485, 1991.
	C80	Ugi <i>et al.</i> , "Src homology 2 domains of protein tyrosine phosphatase are associated <i>in vitro</i> with both the insulin receptor and insulin receptor substrate-1 <i>via</i> different phosphotyrosine motifs," <i>FEBS Lett.</i> , 340:216-220, 1994.
	C81	Veals <i>et al.</i> , "Subunit of an alpha-interferon-responsive transcription factor is related to interferon regulatory factor and Myb families of DNA-binding proteins," <i>Mol. Cell. Biol.</i> , 12:3315-3324, 1992.
	C82	Verma <i>et al.</i> , "Gene therapy - promises, problems and prospects," <i>Nature</i> , 389:239-242, 1997.
	C83	Waksman <i>et al.</i> , "Binding of a high affinity phosphotyrosyl peptide to the Src SH2 domain: crystal structures of the complexed and peptide-free forms," <i>Cell</i> , 72:779-790, 1993.
	C84	Wang <i>et al.</i> , "Nuclear protein that binds sterol regulatory element of low density lipoprotein receptor promoter," <i>J. Biol. Chem.</i> , 268:14497-14504, 1993.
	C85	Weisgraber and Rall Jr., "Human apolipoprotein B-100 heparin-binding sites," <i>J. Biol. Chem.</i> , 262:11097-11103, 1987.
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	C87	Wolff <i>et al.</i> , "Direct gene transfer into mouse muscle <i>in vivo</i> ," <i>Science</i> , 247:1465-1468, 1990.

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Form PTO-1449 (modified)Atty. Docket No.
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List of Patents and Publications for Applicant's

Applicants

Juan G. Guevara, Jr., Ron C. Hoogeveen
and J. Paul MooreFiling Date:
September 5, 2003Group:
Unknown**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

U.S. Patent Documents
*See Page 1*Foreign Patent Documents
*See Page 1*Other Art
*See Page 1***Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
	C88	Yang <i>et al.</i> , "Isolation and characterization of sulfhydryl and disulfide peptides of human apolipoprotein B-100," <i>Proc. Natl. Acad. Sci. USA</i> , 87:5523-5527, 1990.
	C89	Yang <i>et al.</i> , "Sequence, structure, receptor-binding domains and internal repeats of human apolipoprotein B-100," <i>Nature</i> , 323:738-742, 1986.
	C90	Yang <i>et al.</i> , "Structure of apolipoprotein B-100 of human low density lipoproteins," <i>Arteriosclerosis</i> , 9(1):96-108, 1989.
	C91	Ye <i>et al.</i> , "Interactions of low density lipoprotein ₂ and other apolipoprotein B-containing lipoproteins with apolipoprotein(a)," <i>J. Biol. Chem.</i> , 263(13):6337-6343, 1988.
	C92	Young <i>et al.</i> , "Conservation of the low density lipoprotein receptor-binding domain of apolipoprotein B," <i>Arterioscl.</i> , 6:178-188, 1986.

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